

DRILL STEM TEST REPORT

Prepared For: **King Oil Operations**

696 D Fairground Road
Ellis, Ks. 67637

ATTN: Tony Richardson

35-12s-20w-Ellis

King #1

Start Date: 2005.12.09 @ 13:18:24

End Date: 2005.12.09 @ 21:11:24

Job Ticket #: 23667 DST #: 1

API 15-051-25473-00-00

RECEIVED

JAN 24 2006

KCC WICHITA

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

King Oil Operations

696 D Fairground Road
Ellis, Ks. 67637

ATTN: Tony Richardson

King #1

35-12s-20w-Ellis

Job Ticket: 23667

DST#: 1

Test Start: 2005.12.09 @ 13:18:24

GENERAL INFORMATION:

Formation: **Toronto-LKC-"A-C"**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 15:28:24

Time Test Ended: 21:11:24

Test Type: **Conventional Bottom Hole**

Tester: **Jason McLemore**

Unit No: **32**

Interval: **3466.00 ft (KB) To 3562.00 ft (KB) (TVD)**

Total Depth: **3562.00 ft (KB) (TVD)**

Hole Diameter: **7.80 inches** Hole Condition: **Good**

Reference Elevations: **2205.00 ft (KB)**

2195.00 ft (CF)

KB to GR/CF: **10.00 ft**

Serial #: 6741

Inside

Press@RunDepth: **150.55 psig @ 3469.00 ft (KB)**

Start Date: **2005.12.09**

End Date: **2005.12.09**

Start Time: **13:18:26**

End Time: **21:11:24**

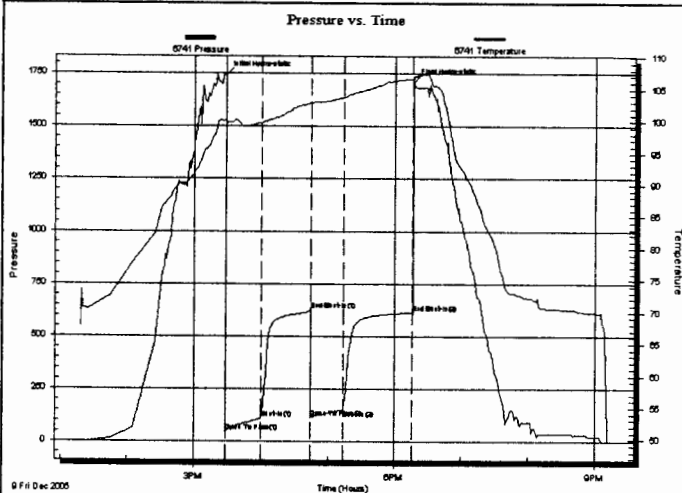
Capacity: **7000.00 psig**

Last Calib.: **2005.12.09**

Time On Btm: **2005.12.09 @ 15:28:09**

Time Off Btm: **2005.12.09 @ 18:16:24**

TEST COMMENT: IFP-Good Blow ,BOB in 9 Min.
ISI-Blow back Built to 1"
FFP-Strong Blow ,BOB in 4 Min.
FSI-Blow down 5 Min.Blow back After 15 Min. Stayed at 1/8" Throughout



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1743.97	100.11	Initial Hydro-static
1	44.45	99.35	Open To Flow (1)
32	109.35	99.78	Shut-In(1)
76	624.32	102.87	End Shut-In(1)
77	113.08	102.76	Open To Flow (2)
106	150.55	103.73	Shut-In(2)
168	612.58	106.61	End Shut-In(2)
169	1708.78	107.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	HOCM-40%O-60%M	0.20
90.00	Gassy OCM-20%G-10%O-70%M	0.44
60.00	Gassy HOCM-25%G-40%O-<1%W-35%M0.30	
60.00	Gassy OCM-15%G-10%O-<1%w-75%M0.30	

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

King Oil Operations

King #1

696 D Fairground Road
Ellis, Ks. 67637

35-12s-20w-Ellis

Job Ticket: 23667

DST#: 1

ATTN: Tony Richardson

Test Start: 2005.12.09 @ 13:18:24

Tool Information

Drill Pipe:	Length: 3239.00 ft	Diameter: 2.40 inches	Volume: 18.12 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 239.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose:	42000.00 lb
			<u>Total Volume: 19.30 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial	38000.00 lb
Depth to Top Packer:	3466.00 ft			Final	39000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	96.00 ft				
Tool Length:	117.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3446.00	
Shut In Tool	5.00			3451.00	
Hydraulic tool	5.00			3456.00	
Packer	5.00			3461.00	21.00 Bottom Of Top Packer
Packer	5.00			3466.00	
Stubb	1.00			3467.00	
Perforations	1.00			3468.00	
Change Over Sub	1.00			3469.00	
Recorder	0.00	6741	Inside	3469.00	
Blank Spacing	60.00			3529.00	
Change Over Sub	1.00			3530.00	
Perforations	29.00			3559.00	
Recorder	0.00	13221	Outside	3559.00	
Bullnose	3.00			3562.00	96.00 Bottom Packers & Anchor

Total Tool Length: 117.00



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FLUID SUMMARY

King Oil Operations

King #1

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35-12s-20w-Ellis

Job Ticket: 23667

DST#: 1

ATTN: Tony Richardson

Test Start: 2005.12.09 @ 13:18:24

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	HOCM-40%O-60%M	0.197
90.00	Gassy OCM-20%G-10%O-70%M	0.443
60.00	Gassy HOCM-25%G-40%O-<1%W-35%M	0.295
60.00	Gassy OCM-15%G-10%O-<1%W-75%M	0.303

Total Length: 250.00 ft

Total Volume: 1.238 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

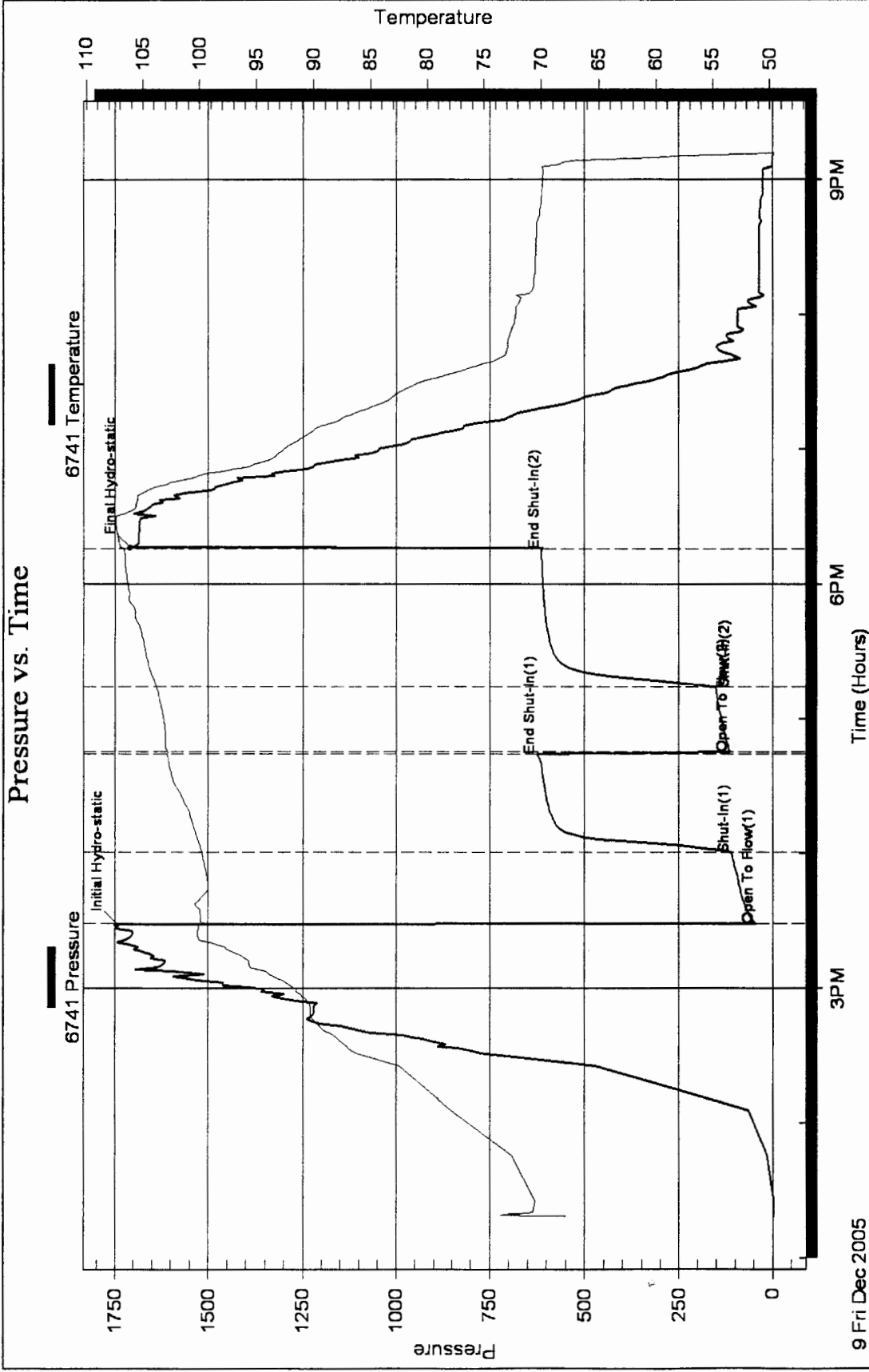
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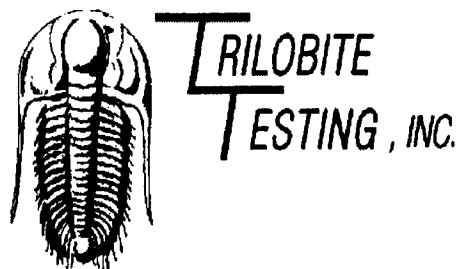
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **King Oil Operations**

696 D Fairground Road
Ellis, Ks. 67637

ATTN: Tony Richardson

35-12s-20w-Ellis

King #1

Start Date: 2005.12.10 @ 11:41:29

End Date: 2005.12.10 @ 19:57:59

Job Ticket #: 23668 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



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TESTING, INC.**

DRILL STEM TEST REPORT

King Oil Operations

696 D Fairground Road
Ellis, Ks. 67637

ATTN: Tony Richardson

King #1

35-12s-20w-Ellis

Job Ticket: 23668

DST#: 2

Test Start: 2005.12.10 @ 11:41:29

GENERAL INFORMATION:

Formation: **LKC-"D-E-F-G"**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 13:56:59

Time Test Ended: 19:57:59

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: **3550.00 ft (KB) To 3627.00 ft (KB) (TVD)**

Total Depth: **3627.00 ft (KB) (TVD)**

Hole Diameter: **7.80 inches** Hole Condition: **Good**

Reference Elevations: **2205.00 ft (KB)**

2195.00 ft (CF)

KB to GR/CF: **10.00 ft**

Serial #: 6741

Inside

Press@RunDepth: **302.57 psig @ 3553.00 ft (KB)**

Start Date: **2005.12.10**

End Date: **2005.12.10**

Start Time: **11:41:31**

End Time: **19:57:59**

Capacity: **7000.00 psig**

Last Calib.: **2005.12.10**

Time On Btm: **2005.12.10 @ 13:56:44**

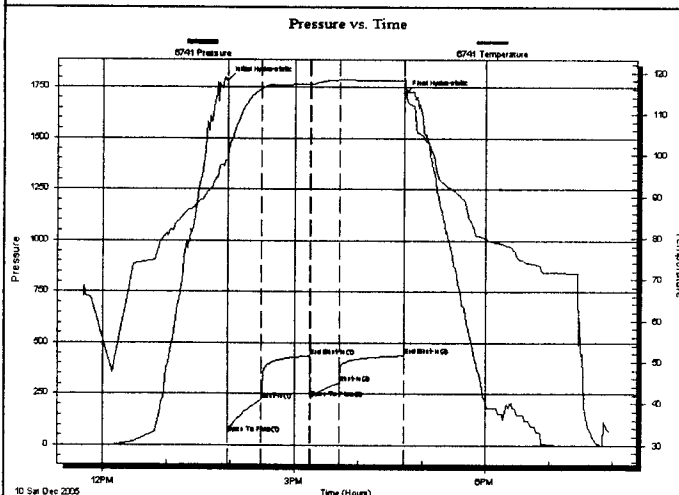
Time Off Btm: **2005.12.10 @ 16:42:59**

TEST COMMENT: IFP-Strong Blow,BOB in 2 Mn. 50 Sec.

IS-Blow back Built to 1"

FFP-Good Blow,BOB in 7 Mn.

FS-Blow back Built to



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1784.77	98.75	Initial Hydro-static
1	56.50	98.47	Open To Flow (1)
33	221.74	115.90	Shut-In(1)
78	436.06	117.18	End Shut-In(1)
78	229.46	117.10	Open To Flow (2)
106	302.57	118.22	Shut-In(2)
166	437.30	118.00	End Shut-In(2)
167	1720.29	118.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
417.00	Muddy Water-75%W-25%M	2.17
120.00	Oil Cut Watery Mud-10%O-25%W-65%M	0.67
3.00	Clean Oil	0.02

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

King Oil Operations

King #1

696 D Fairground Road
Ellis, Ks. 67637

35-12s-20w-Ellis

Job Ticket: 23668

DST#: 2

ATTN: Tony Richardson

Test Start: 2005.12.10 @ 11:41:29

Tool Information

Drill Pipe: Length: 3304.00 ft Diameter: 2.40 inches Volume: 18.49 bbl
Heavy Wt. Pipe: Length: 0.00 ft Diameter: 0.00 inches Volume: 0.00 bbl
Drill Collar: Length: 239.00 ft Diameter: 2.25 inches Volume: 1.18 bbl
Total Volume: 19.67 bbl
Drill Pipe Above KB: 14.00 ft
Depth to Top Packer: 3550.00 ft
Depth to Bottom Packer: ft
Interval between Packers: 77.00 ft
Tool Length: 98.00 ft
Number of Packers: 2 Diameter: 6.75 inches

Tool Weight: 2200.00 lb
Weight set on Packer: 25000.00 lb
Weight to Pull Loose: 46000.00 lb
Tool Chased 0.00 ft
String Weight: Initial 42000.00 lb
Final 43000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3530.00	
Shut In Tool	5.00			3535.00	
Hydraulic tool	5.00			3540.00	
Packer	5.00			3545.00	21.00 Bottom Of Top Packer
Packer	5.00			3550.00	
Stubb	1.00			3551.00	
Perforations	1.00			3552.00	
Change Over Sub	1.00			3553.00	
Recorder	0.00	6741	Inside	3553.00	
Blank Spacing	60.00			3613.00	
Change Over Sub	1.00			3614.00	
Perforations	10.00			3624.00	
Recorder	0.00	13221	Outside	3624.00	
Bullnose	3.00			3627.00	77.00 Bottom Packers & Anchor

Total Tool Length: 98.00



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FLUID SUMMARY

King Oil Operations

King #1

696 D Fairground Road
Ellis, Ks. 67637

35-12s-20w-Ellis

Job Ticket: 23668

DST#: 2

ATTN: Tony Richardson

Test Start: 2005.12.10 @ 11:41:29

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

33 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
417.00	Muddy Water-75%W-25%M	2.171
120.00	Oil Cut Watery Mud-10%O-25%W-65%M	0.671
3.00	Clean Oil	0.017

Total Length: 540.00 ft

Total Volume: 2.859 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

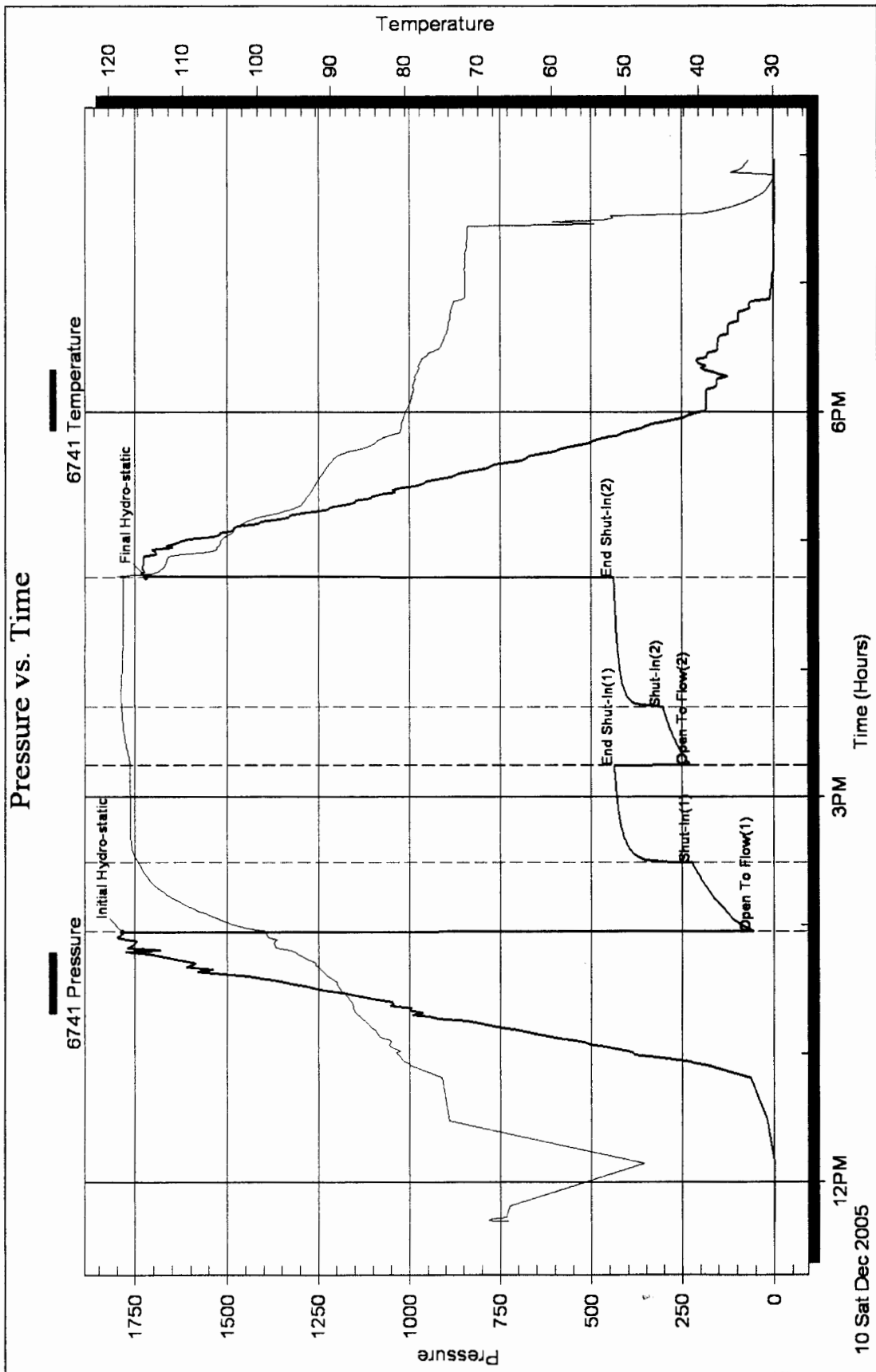
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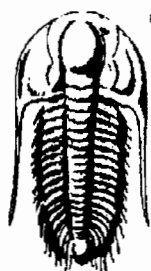
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





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DRILL STEM TEST REPORT

Prepared For: **King Oil Operations**

696 D Fairground Road
Ellis, Ks. 67637

ATTN: Tony Richardson

35-12s-20w-Ellis

King #1

Start Date: 2005.12.11 @ 10:20:29

End Date: 2005.12.11 @ 18:53:14

Job Ticket #: 23601 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

King Oil Operations

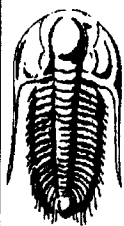
King #1

35-12s-20w-Ellis

DST # 3

LKC - J

2005.12.11



**TRILOBITE
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DRILL STEM TEST REPORT

King Oil Operations

696 D Fairground Road
Ellis, Ks. 67637

ATTN: Tony Richardson

King #1

35-12s-20w-Ellis

Job Ticket: 23601

DST#: 3

Test Start: 2005.12.11 @ 10:20:29

GENERAL INFORMATION:

Formation: **LKC - J**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 12:38:29

Time Test Ended: 18:53:14

Test Type: **Conventional Bottom Hole**

Tester: **Jason McLemore**

Unit No: **32**

Interval: **3674.00 ft (KB) To 3700.00 ft (KB) (TVD)**

Total Depth: **3700.00 ft (KB) (TVD)**

Hole Diameter: **7.80 inches** Hole Condition: **Fair**

Reference Elevations: **2205.00 ft (KB)**

2195.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6741

Inside

Press@RunDepth: **186.19 psig @ 3676.00 ft (KB)**

Start Date: **2005.12.11**

End Date:

2005.12.11

Start Time: **10:20:31**

End Time:

18:53:14

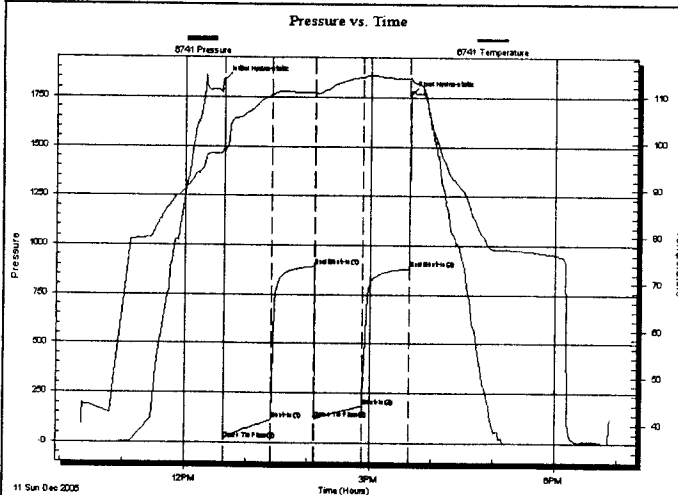
Capacity: **7000.00 psig**

Last Calib.: **2005.12.11**

Time On Btm: **2005.12.11 @ 12:38:14**

Time Off Btm: **2005.12.11 @ 15:38:44**

TEST COMMENT: **F- B of B 19m**
ISI- 5" Blow back
FF- B of B 10m
FSI-



PRESSURE SUMMARY

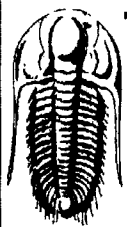
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1837.54	98.80	Initial Hydro-static
1	14.44	98.06	Open To Flow (1)
46	114.73	110.23	Shut-In(1)
88	892.66	110.80	End Shut-In(1)
89	121.93	110.56	Open To Flow (2)
135	186.19	114.16	Shut-In(2)
180	882.41	113.82	End Shut-In(2)
181	1763.36	114.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
250.00	Oil spotted SW3%o97%w	1.24
60.00	GV&MCutOil5%w 15%g25%m65%o	0.34
30.00	M&GCutOil5%m15%g80%o	0.17
60.00	Clean33Gravity Oil10%g90%o	0.34
0.00	760 GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

King Oil Operations

King #1

696 D Fairground Road
Ellis, Ks. 67637

35-12s-20w-Ellis

Job Ticket: 23601

DST#: 3

ATTN: Tony Richardson

Test Start: 2005.12.11 @ 10:20:29

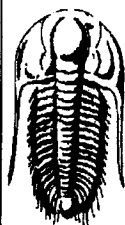
Tool Information

Drill Pipe:	Length: 3419.00 ft	Diameter: 2.40 inches	Volume: 19.13 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 239.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose:	44000.00 lb
		Total Volume:	20.31 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial	41000.00 lb
Depth to Top Packer:	3674.00 ft			Final	43000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	26.00 ft				
Tool Length:	54.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3647.00	
Shut In Tool	5.00			3652.00	
Hydraulic tool	5.00			3657.00	
Jars	5.00			3662.00	
Safety Joint	2.00			3664.00	
Packer	5.00			3669.00	28.00 Bottom Of Top Packer
Packer	5.00			3674.00	
Stubb	1.00			3675.00	
Perforations	1.00			3676.00	
Recorder	0.00	6741	Inside	3676.00	
Perforations	21.00			3697.00	
Recorder	0.00	13221	Outside	3697.00	
Bullnose	3.00			3700.00	26.00 Bottom Packers & Anchor

Total Tool Length: 54.00



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DRILL STEM TEST REPORT

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King #1

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Ellis, Ks. 67637

35-12s-20w-Ellis

Job Ticket: 23601

DST#: 3

ATTN: Tony Richardson

Test Start: 2005.12.11 @ 10:20:29

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 60.00 sec/qt

Water Loss: 7.97 in³

Resistivity: ohm.m

Salinity: 5500.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
250.00	Oil spotted SW3%o97%w	1.237
60.00	GW&M Cut Oil 5%w 15%g 25% m 65%o	0.336
30.00	M&G Cut Oil 5% m 15%g 80%o	0.168
60.00	Clean 33 Gravity Oil 10%g 90%o	0.336
0.00	760 GIP	0.000

Total Length: 400.00 ft

Total Volume: 2.077 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

